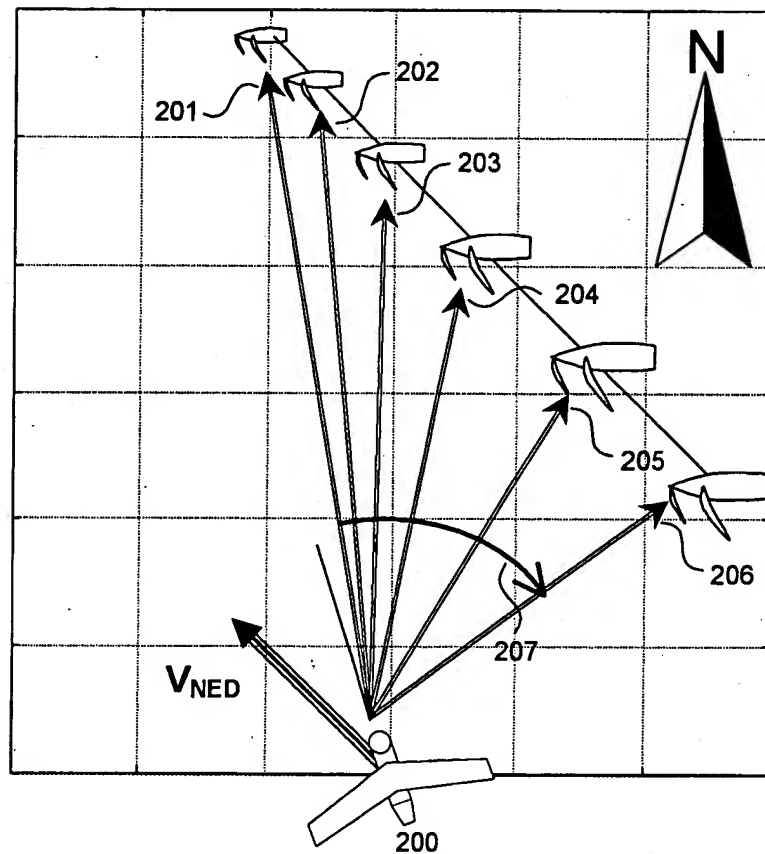
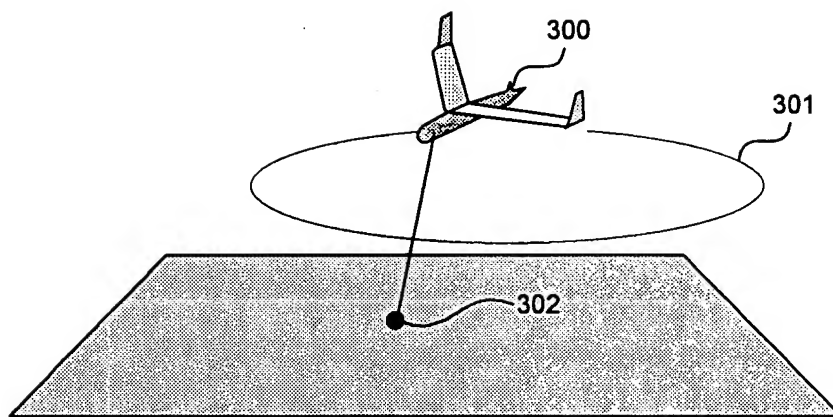


**FIG. 1**



**FIG. 2**



***FIG. 3***

401

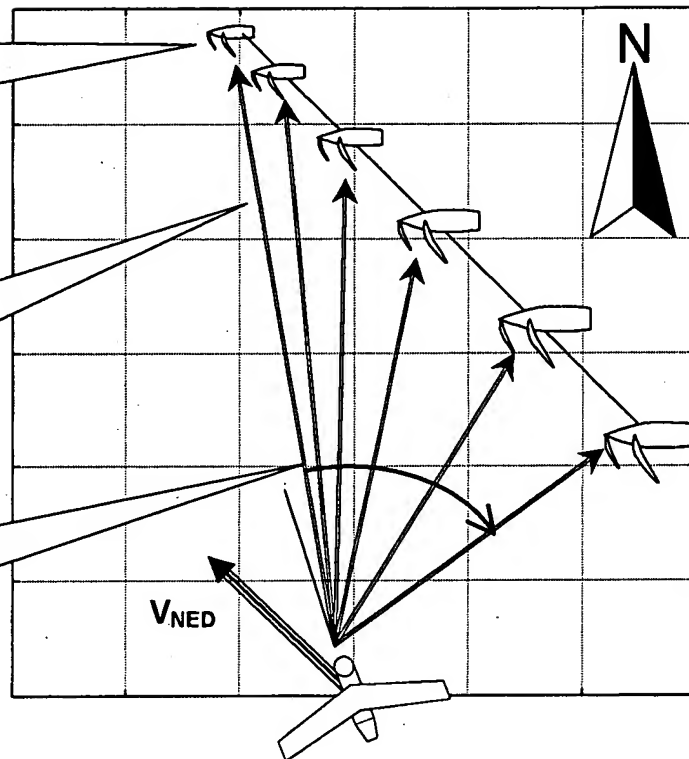
**Acquire:**  
Calculate Inertial Target Position in Earth reference frame, using altitude, aircraft attitude and gimbal angles

402

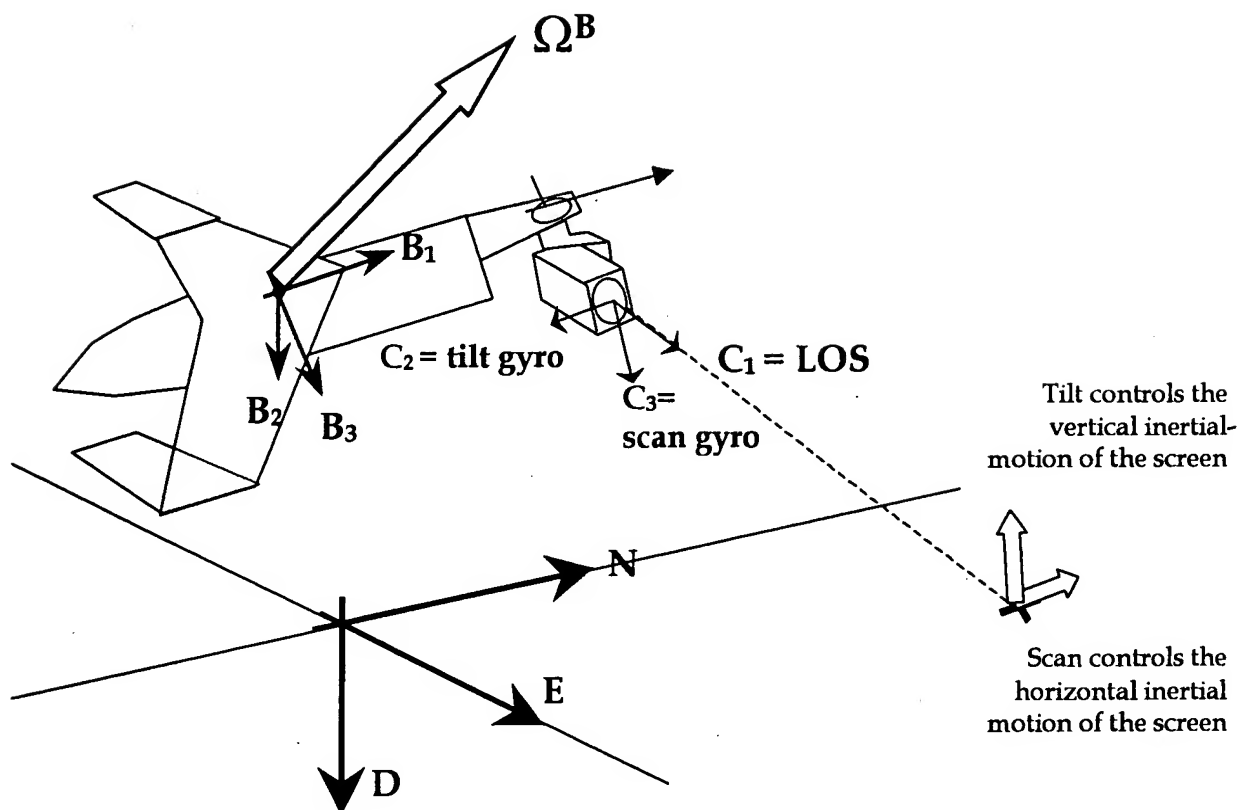
**Update Line of Sight**  
Calculate Relative Inertial Target Position: North, East, using aircraft position and velocity.

403

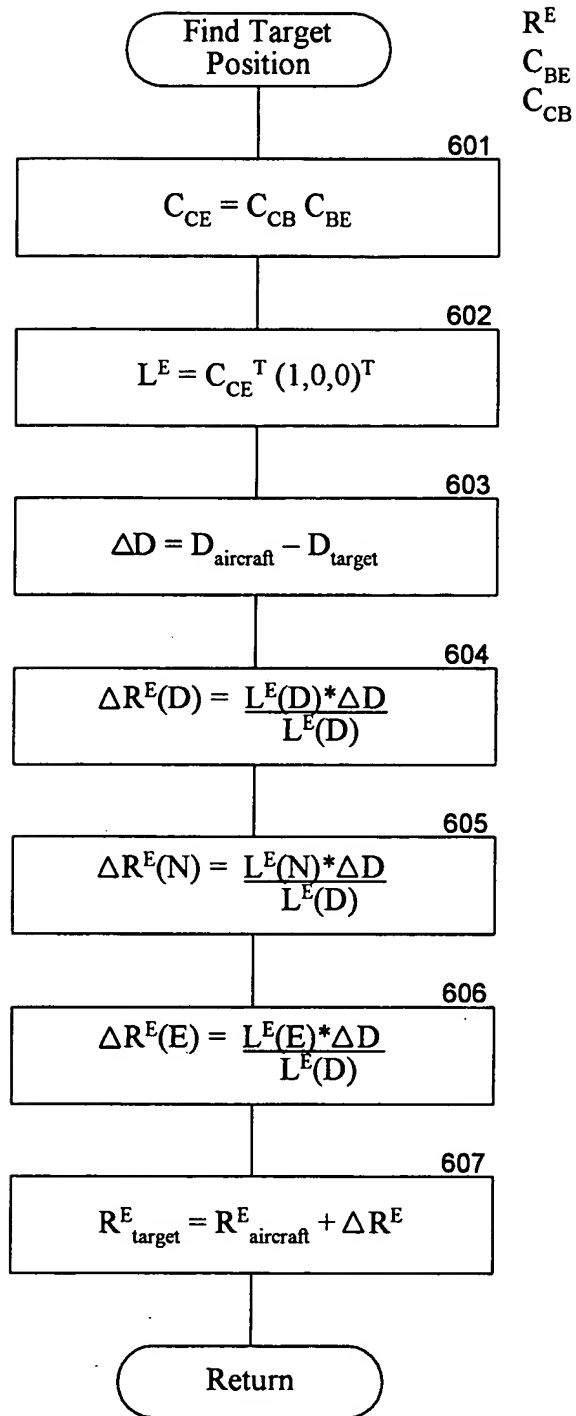
**Update Line of Sight Change**  
Calculate Rate of Change of Relative Inertial Target Position in Earth reference frame using aircraft position and velocity



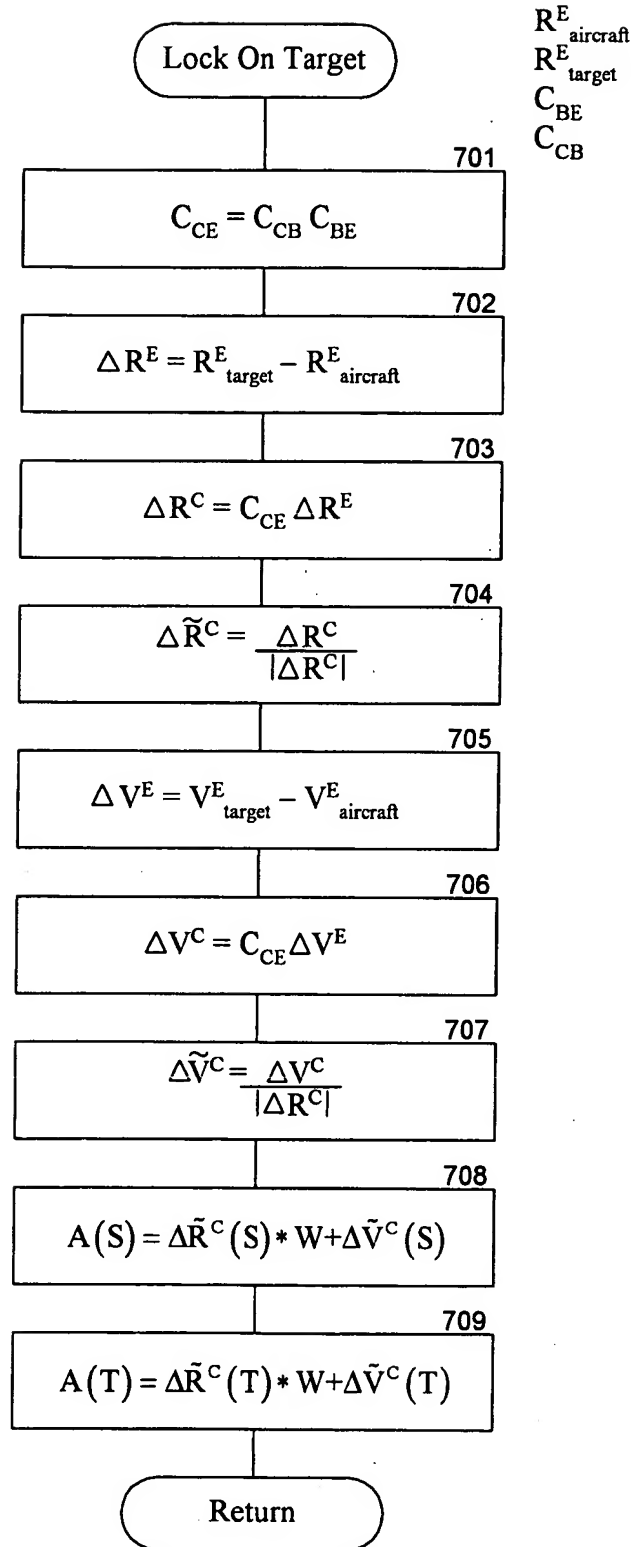
**FIG. 4**



**FIG. 5**



**FIG. 6**



**FIG. 7**